

5 July 1962

MEMORANDUM FOR: Chief, Technical Plans and Development Staff
THROUGH: Chief, Technical Development Branch
SUBJECT: Trip Report, 25-29 June 1962

1. Visitors:

[Redacted]

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2. Organizations Visited:

[Redacted]

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3. Purpose of Visit:

a. [Redacted] to engage in technical discussion and directions relative to the 705 Reader and the DMP, respectively.

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b. [Redacted] to investigate the breadboards and progress on virtual image viewers being developed by both companies.

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4. Persons Contacted:

[Redacted]

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5. Progress:

a. The better part of two days were spent at [redacted] discussing technical aspects of the 705R Reader viewing instrument. Considerable time was spent arriving at a current set of specifications for the instrument. These specifications will be submitted for approval and, ultimately, a contract for the instruments.

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[redacted] has engaged consultant services for the film transport and data transmission systems. They were informed that [redacted] had been contracted to study the illumination problem of projection viewers and would visit the [redacted] facility during the week of 2 July 1962 to acquaint themselves with the specific light problems of the 705 series of viewers.

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b. [redacted] had given a brief presentation on their approach to virtual image viewer and the FI Ground Resolution Capability Study being done for the Rome Air Research and Development Center.

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c. [redacted] and engineers sketched the current design of the HI Acuity Chip Viewer being developed for Rome Air Development Center. This equipment is to be completed by October for delivery and system evaluation.

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d. [redacted] were in on the opening conversations. They were interested in dispelling fears that had recently generated about company integrity. Considerable satisfaction was gained in subsequent conversations with the engineering staff regarding capability and interest in the DEMP contract and instrument. Conversations involving technical inputs, both optical and mechanical aspects of the instrument, were conducted during the visit.

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6. Specifics:

a. A major difficulty with the [redacted] viewer is the fact that it is lens aperture limited. The lenses currently installed are of the 5.6 order of aperture. Should faster lenses be installed, particularly at the higher magnification, there could be an increase of light at the screen. An f 2 lens would almost triple the light. A thorough investigation of projection lenses of the desired focal lengths should be conducted before a lens is selected.

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7. Conclusions and Recommendations: An index of projection lenses should be compiled. This could be made available to such contractors as [redacted] and others throughout the community of viewer builder/developers. Obviously, this would save considerable time and money on the part of our government.

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NPIC/TP&DS/TDB: [redacted]

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